

In the Claims

1. (Currently Amended) ~~An isolated~~ A protein expressed in vitro, comprising:

one or more immunoreactive and/or antigenic determinants of *Eimeria* lactate ~~dehydrogenase~~ dehydrogenase (LDH), wherein said isolated protein is found intracellularly in *Eimeria*.

2. (Previously Presented) The protein according to claim 1, wherein the *Eimeria* species is *Eimeria acervulina*.

3. (Previously Presented) The protein according to claim 1, which comprises the amino acid sequence shown in SEQ ID NO:2, a biologically active variant, or an immunogenically active part sequence or variant.

4-10. (Canceled)

11. (Currently Amended) A vaccine for the protection of poultry against Coccidiosis ~~which comprises~~ comprising:

an effective amount of the protein according to claim 1 an isolated protein comprising one or more immunoreactive and/or antigenic determinants of *Eimeria* lactate dehydrogenase, wherein said isolated protein is found intracellularly in *Eimeria*.

12. (Canceled)

13. (Currently Amended) A process for the preparation of a coccidiosis vaccine, comprising:

formulating a protein according to claim 1 into a pharmaceutical preparation with immunizing activity.

14. (Withdrawn) An antibody or antiserum immunoreactive with a protein according to claim 1.

15. (Withdrawn) A method for the protection of poultry against coccidiosis, comprising:

administering to the poultry a vaccine according to claim 11.

16. (Previously Presented) The protein according to claim 1, wherein said protein has a molecular weight of about 37 kD.

17. (Previously Presented) An immunogenic fragment of Eimeria lactate dehydrogenase (LDH), wherein said LDH is immunogenically reactive with antiserum raised against the polypeptide of SEQ ID NO:2.

18. (Previously Presented) An immunogenic fragment of the protein according to claim 1, or a biologically active variant of said fragment.

19. (Previously Presented) The vaccine of claim 11, wherein the protein is present in pure form.

20. (Previously Presented) The vaccine of claim 11, further comprising a pharmaceutically acceptable carrier.

21. (Withdrawn) A method for the protection of coccidiosis, comprising:
administering to the poultry a vaccine according to claim 20.

22. (Withdrawn) The antibody or antiserum of claim 14, wherein the antibody is a monoclonal antibody.

23. (Currently Amended)) A vaccine for the protection of poultry against coccidiosis, ~~which comprises~~ comprising:
an effective amount of the protein according to claim 3.

24. (Previously Presented) The vaccine of claim 23, further comprising a pharmaceutically acceptable carrier.

25. (Withdrawn) A method for the protection of poultry against coccidiosis, comprising:
administering to the poultry a vaccine according to claim

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